**PROCEDURE: pH 7 and above (basic)**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **BEFORE** | **DURING** | **AFTER** |
| **Catalase** | Brown, opaque, non-viscous liquid | Bubbles start to form, gas is produced | More bubbles (foam) are produced |
| **Hydrogen Peroxide** | Clear, colourless, non-viscous liquid |
| **Sodium Hydroxide** | Clear, colourless, non-viscous liquid |

|  |  |  |
| --- | --- | --- |
| **Trial** | **Volume of Gas Produced** | |
| **1 @ pH 8** | 2.5 mL | N/A |
| **2 @ pH 9** | 2.5 mL | N/A |
| **3 @ pH 10** | 3.0 mL | 2.0 mL |
| **4 @ pH 11** | 2.5 mL | N/A |
| **5 @ pH 12** | 2.5 mL | N/A |

**\*N/A means we did not have enough time to do a second trial**

**PROCEDURE: enzyme concentration**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **BEFORE** | **DURING** | **AFTER** |
| **Catalase** | Brown, opaque, non-viscous liquid | Bubbles start to form, gas is produced | More bubbles (foam) are produced |
| **Hydrogen Peroxide** | Clear, colourless, non-viscous liquid |
| **Distilled Water** | Clear, colourless, non-viscous liquid |

|  |  |  |
| --- | --- | --- |
| **Trial** | **Volume of Gas Produced** | |
| **1 w/ Variation 1** | 4.5 mL | 4.0 mL |
| **2 w/ Variation 2** | 2.5 mL | 3.0 mL |
| **3 w/ Variation 3** | 1.0 mL | 2.5 mL |
| **4 w/ Variation 4** | 2.0 mL | 1.5 mL |
| **5 w/ Variation 5** | 1.3 mL | 1.5 mL |